

Fig. 1

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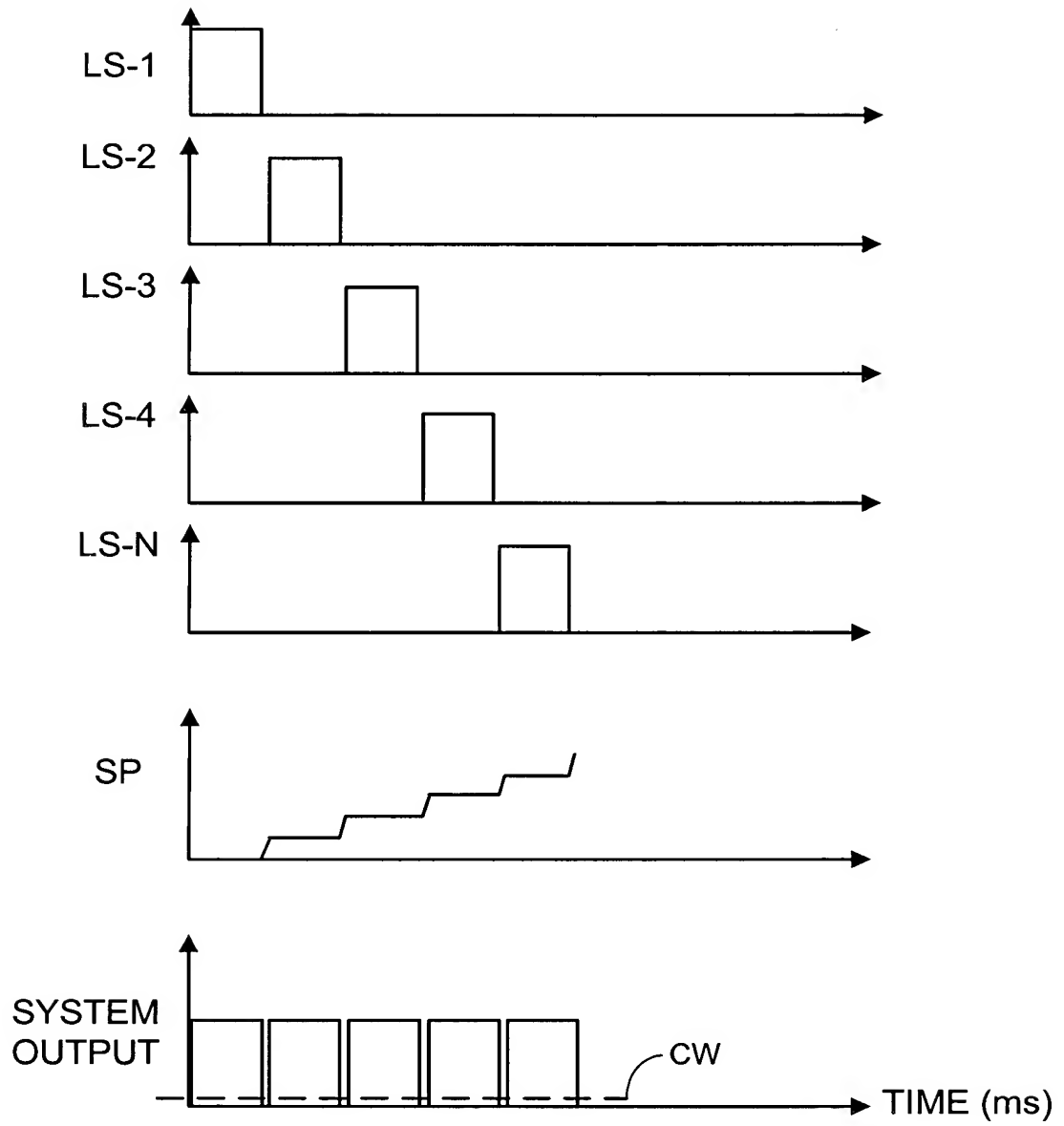


Fig. 2

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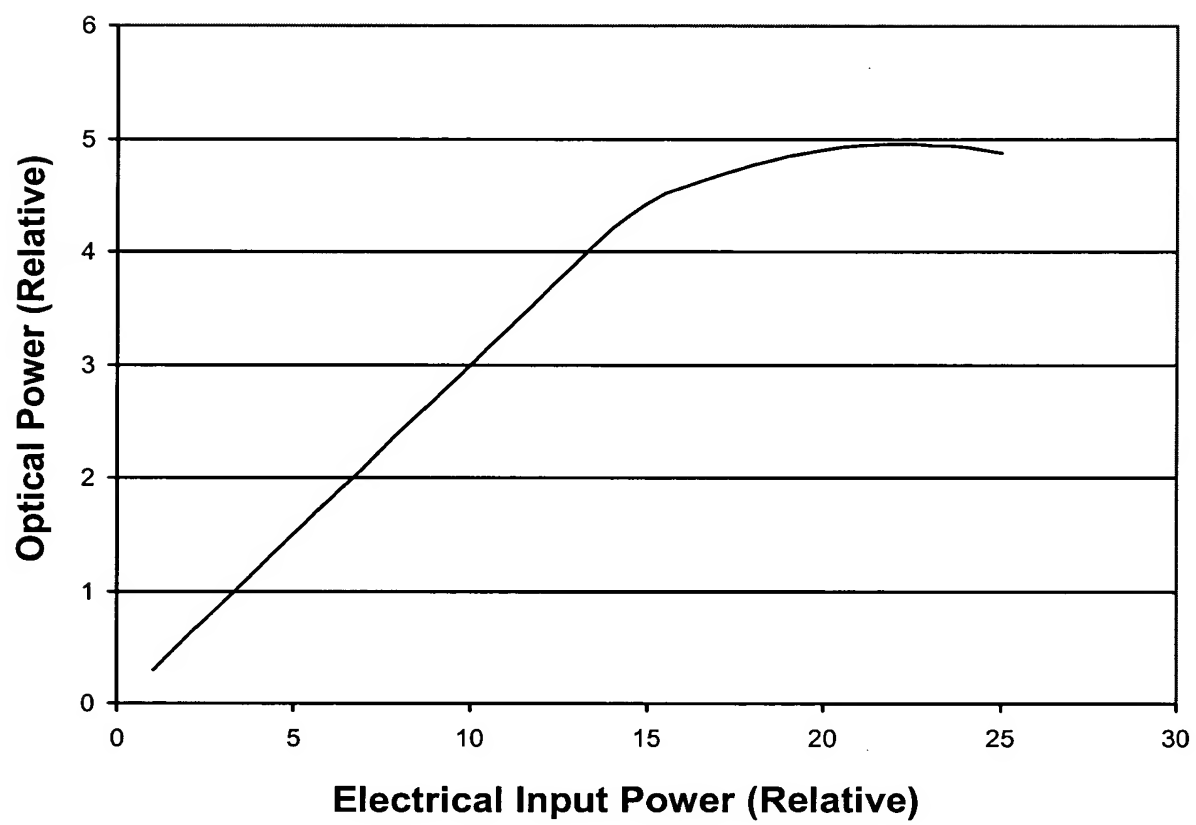


Fig. 3

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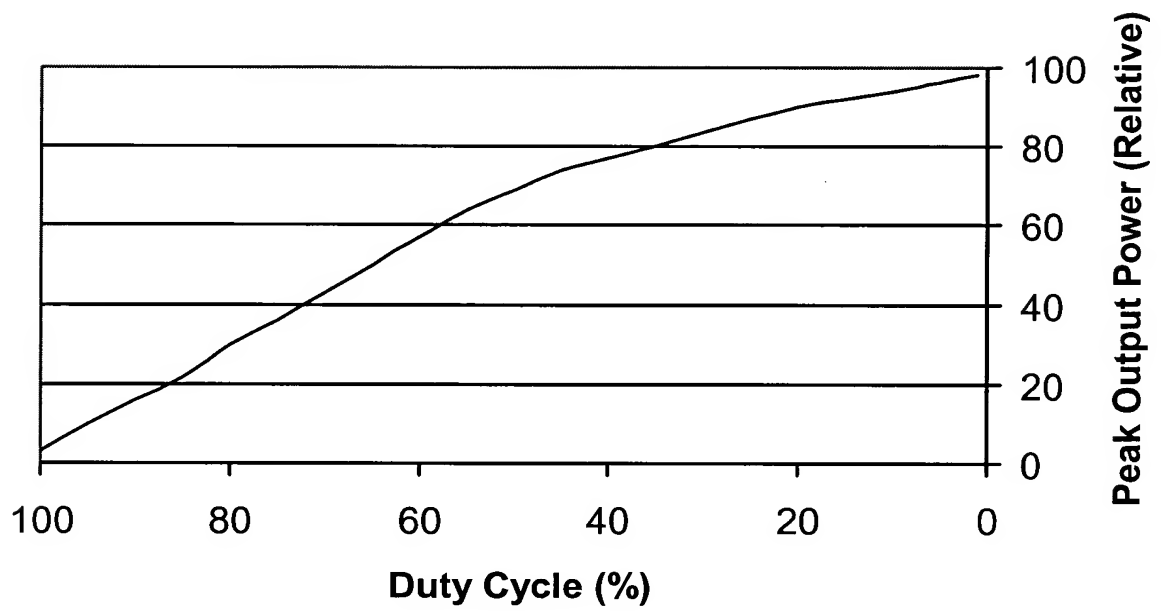


Fig. 4

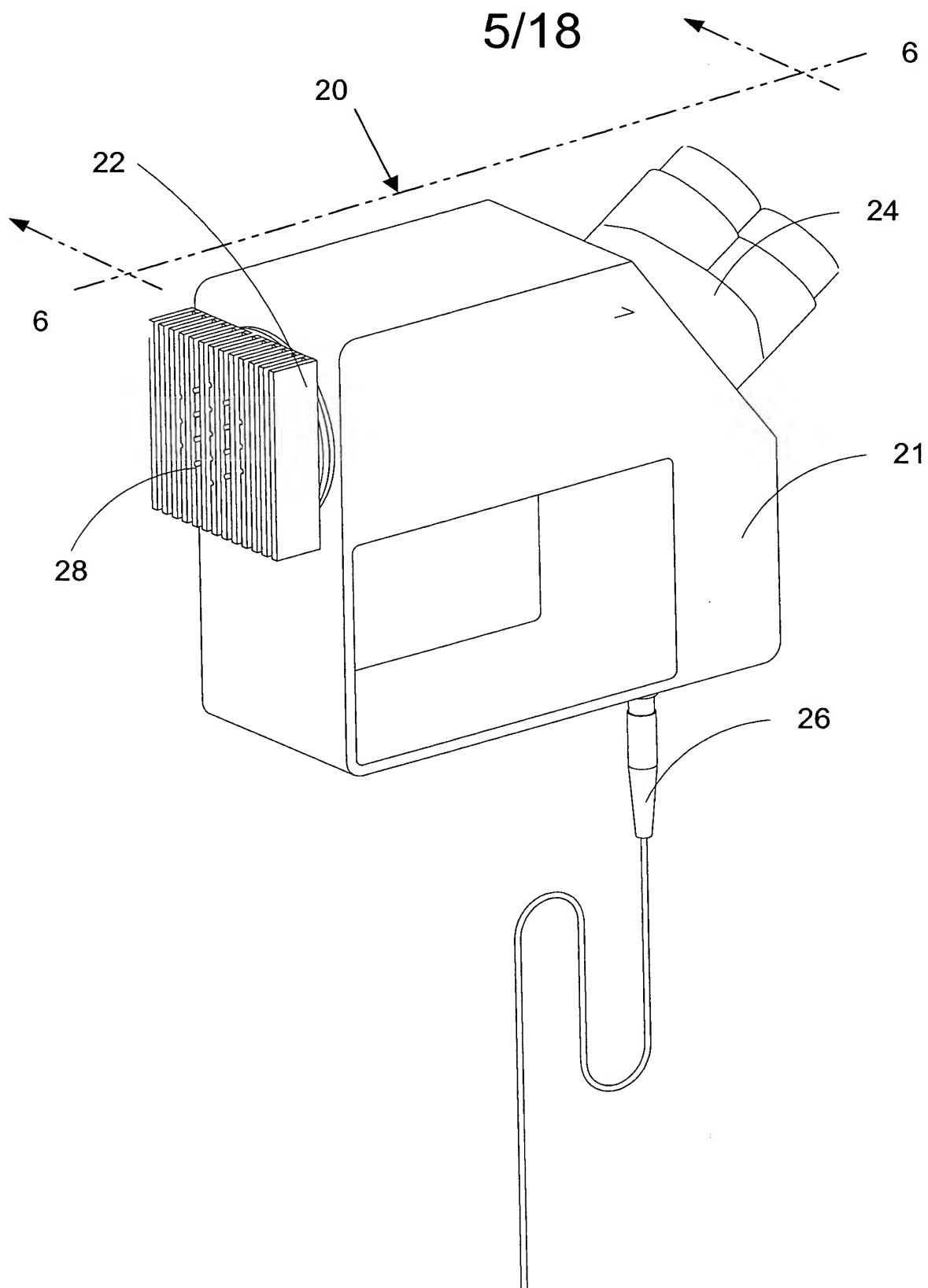


Fig. 5

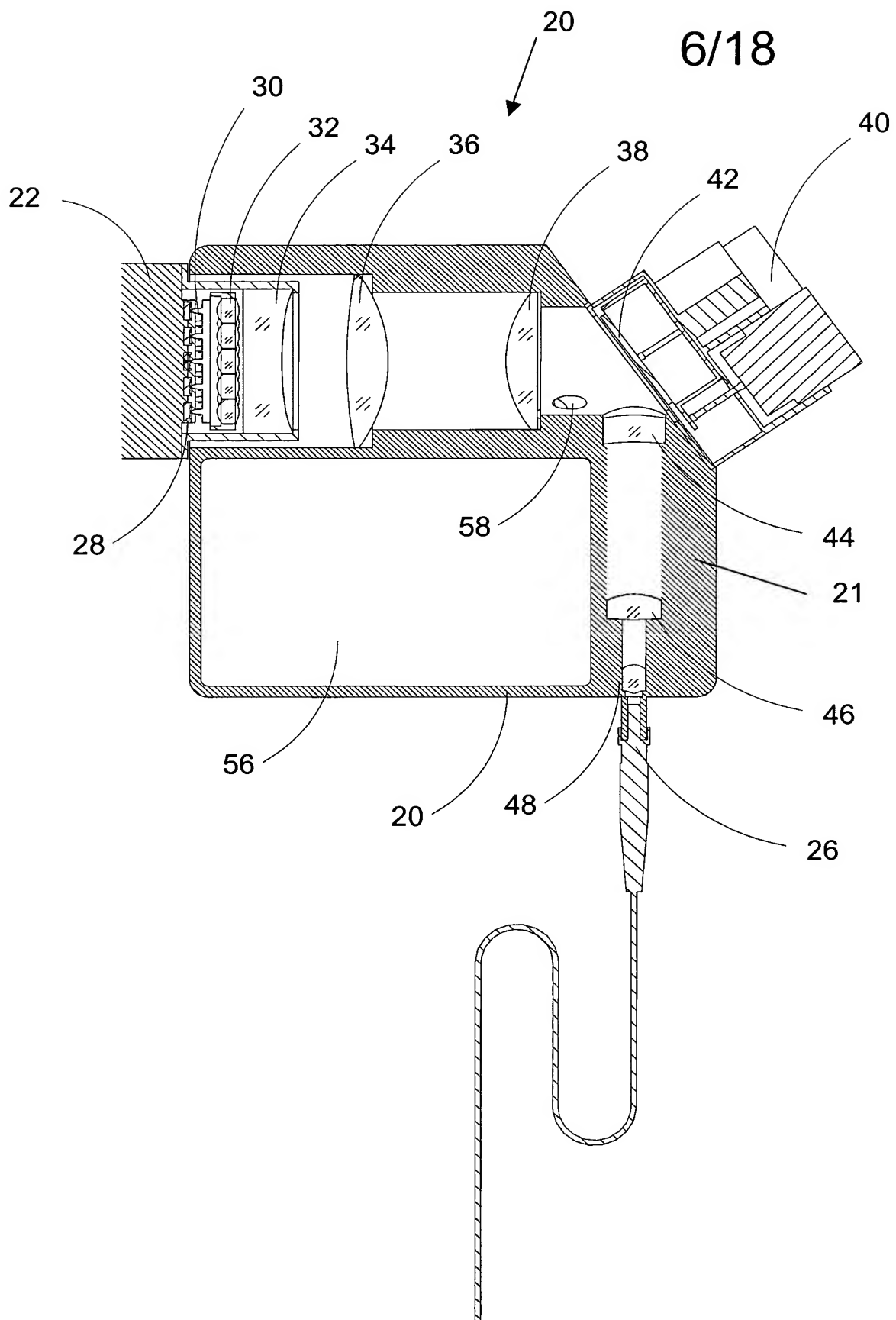


Fig. 6

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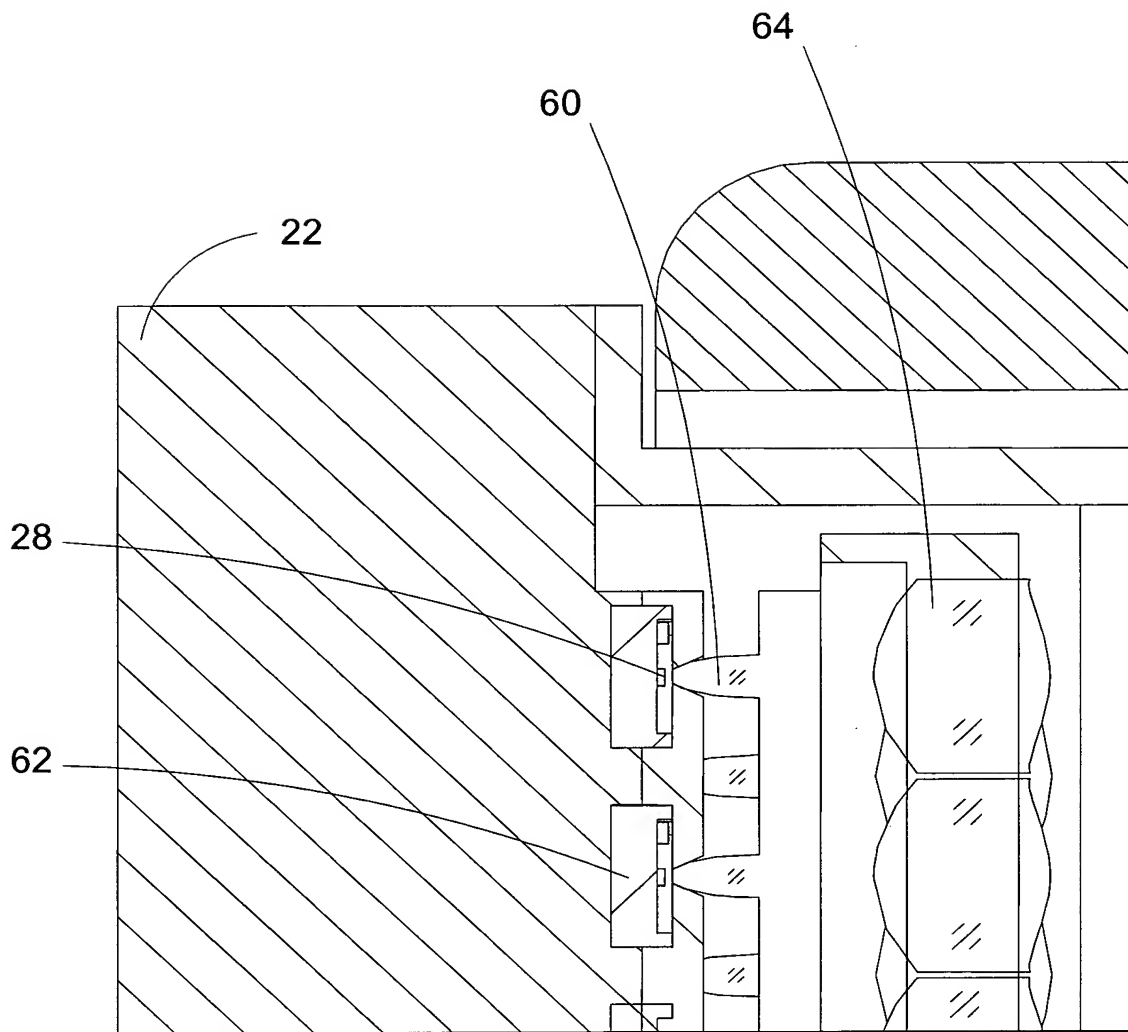


Fig. 7

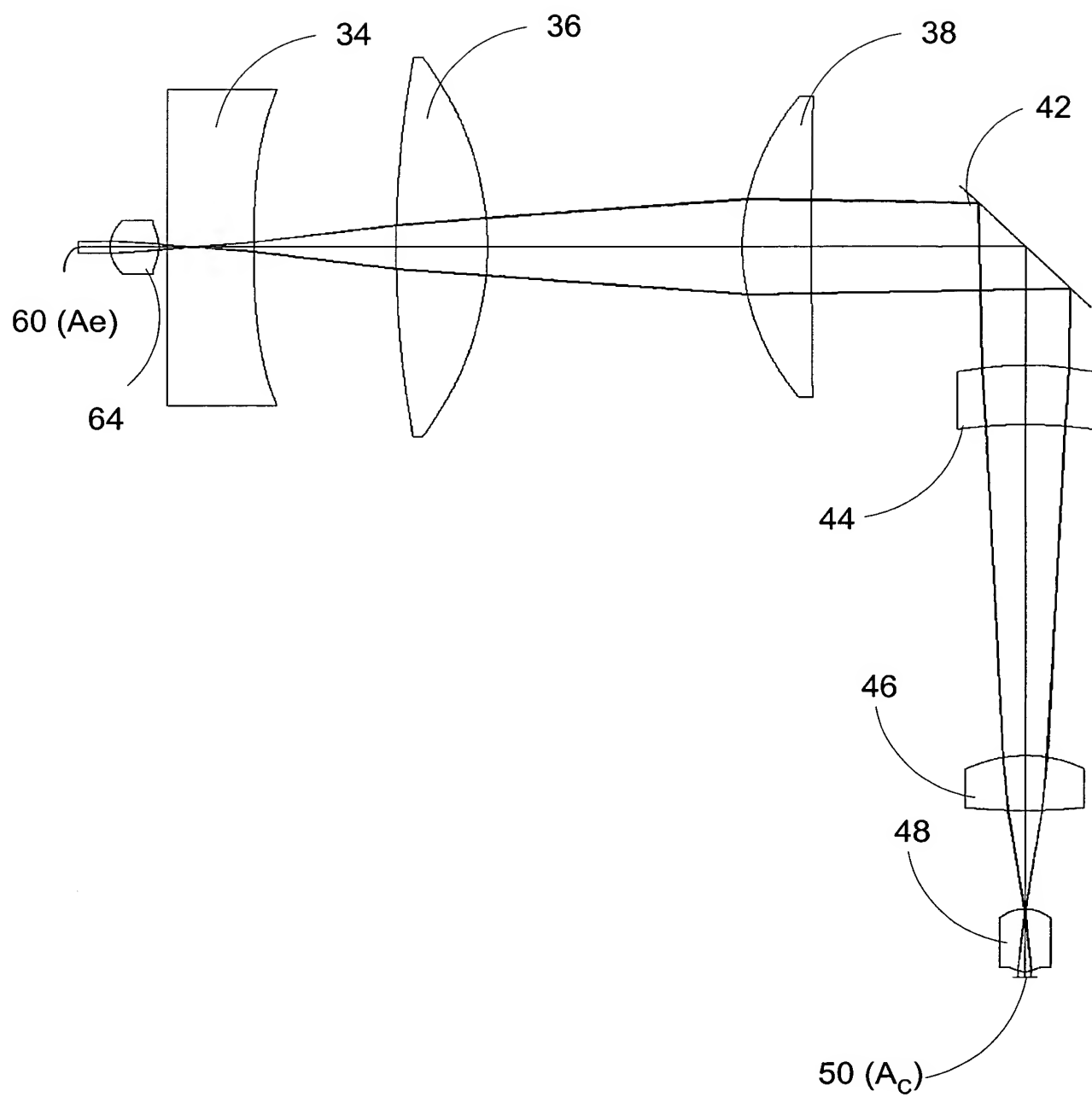


Fig. 8a

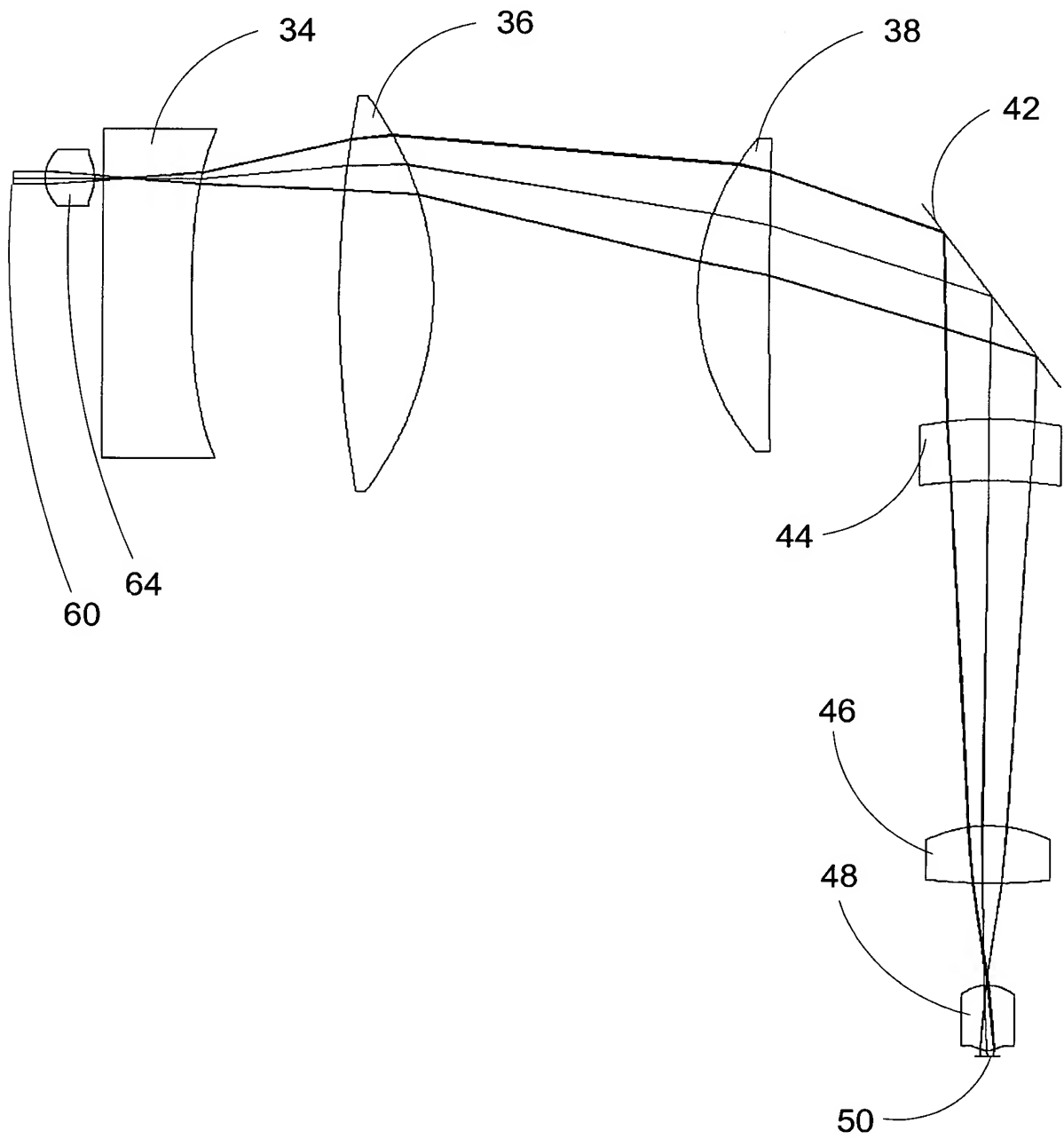


Fig. 8b

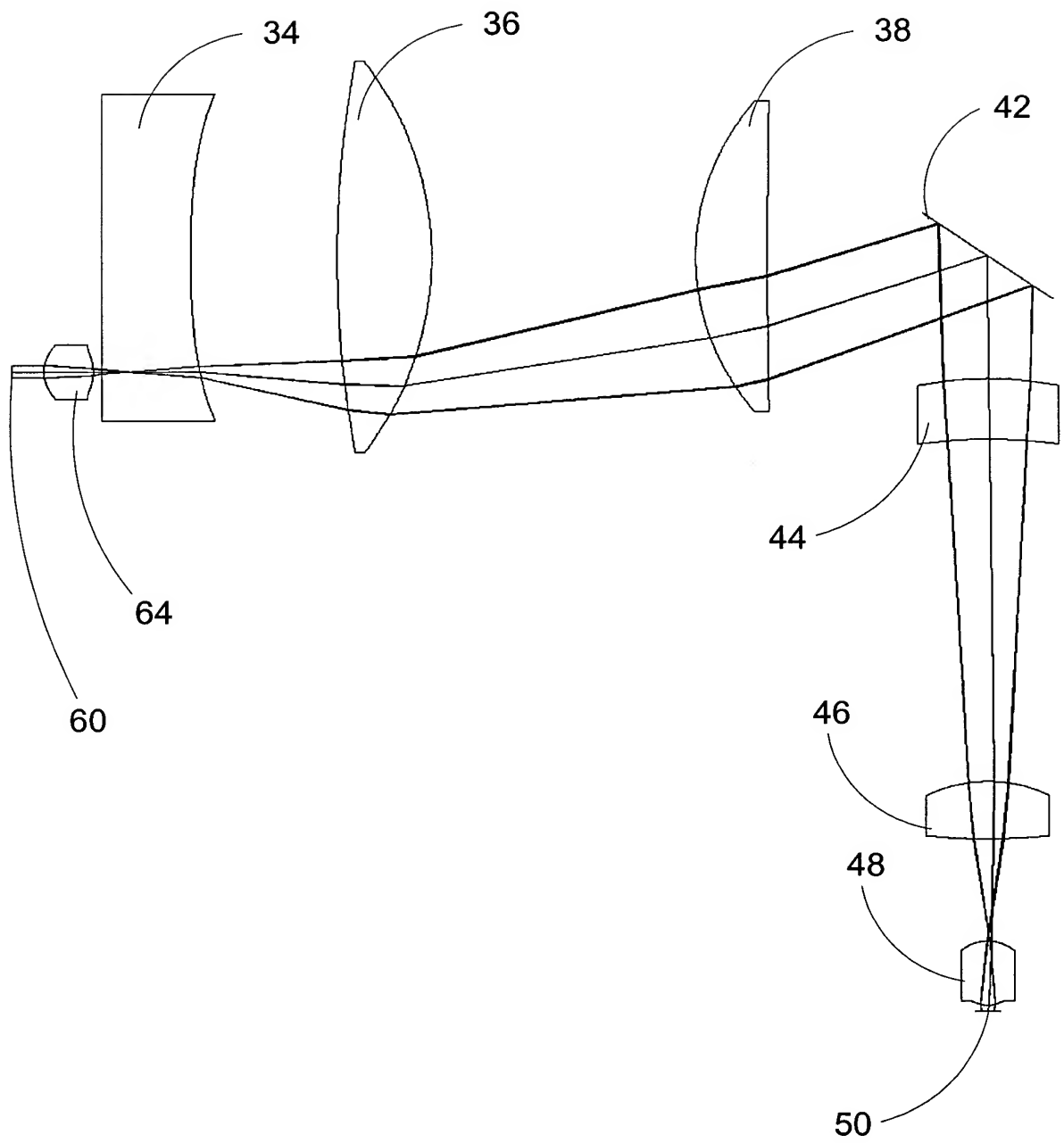


Fig. 8c

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Table 1

Lens Design Scaled to a 100-mm focal length

Lens #	Surface	Radius	Thickness	n_d	Power	Abbe #
	0	Infinity	56058.1810			
	STOP	Infinity	-56058.1810			
	CPC	Infinity	207.4082			
64	3	459.5432	317.9224	1.491668	0.002997	55.310192
	4	-643.4468	56.0582			
	5	Infinity	0.0000			
34	6	Infinity	560.5818	1.491668	-0.000076	55.310192
	7	-8471.2868	934.9330			
36	8	8089.6521	594.4619	1.491668	0.000266	55.310192
	9	-2364.7682	1681.7454			
38	10	1719.8082	448.4655	1.491668	0.000281	55.310192
	11	60668.2952	1401.4545			
	12	Infinity	0.0000			
42	13	Infinity	0.0000			
	14	Infinity	-840.8727			
	15	Infinity	840.8727			
	16	Infinity	-840.8727			
44	17	-2076.5417	-420.0538	1.491668	0.000117	55.310192
	18	-3064.8210	-2356.2217			
46	19	-848.0278	-393.7192	1.491668	0.000705	55.310192
	20	3530.2928	-700.4851			
48	21	-236.4067	-447.0583	1.491668	0.007155	55.310192
	FIBER	36.6046	-34.5267			
	23	Infinity	-56058.1810			
	24	Infinity	56058.1810			
	25	Infinity	0.0000			

Fig. 8d

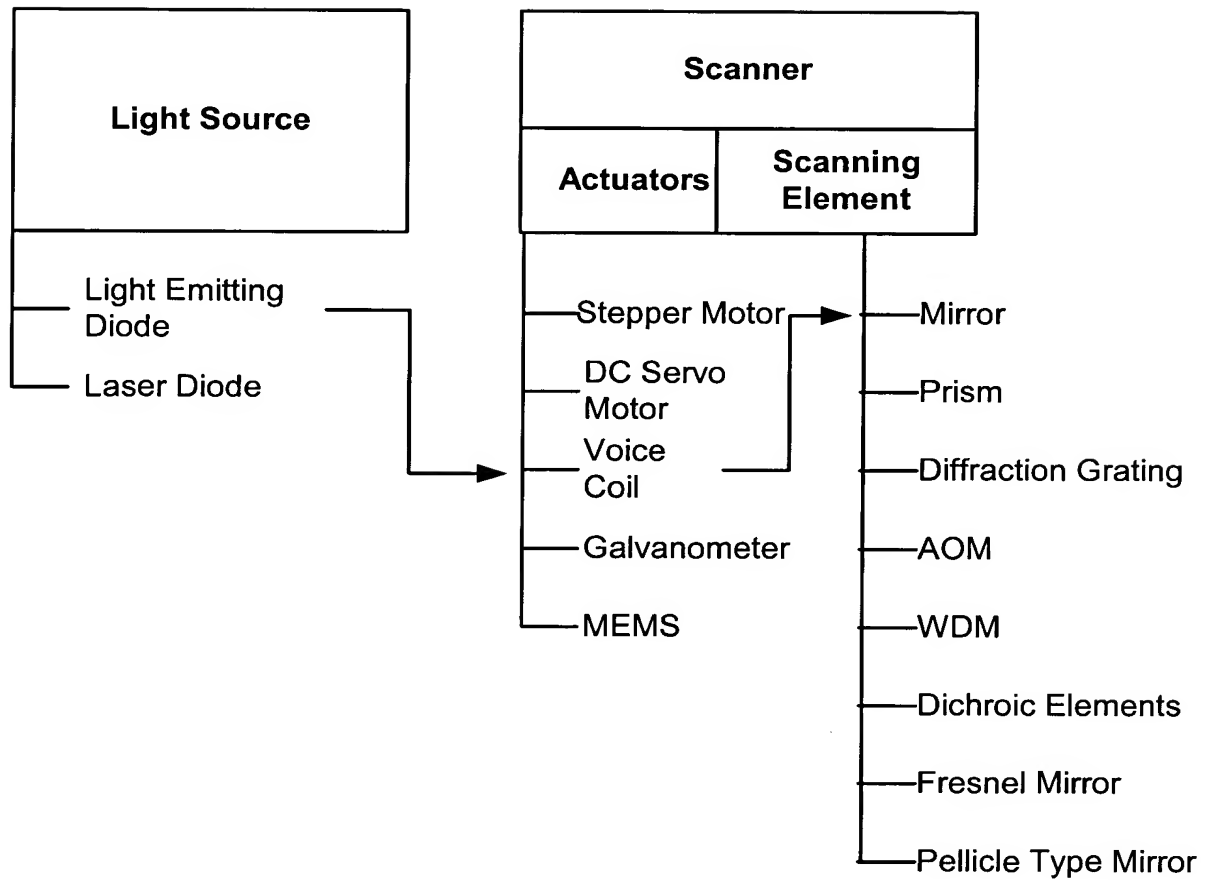


Fig. 9

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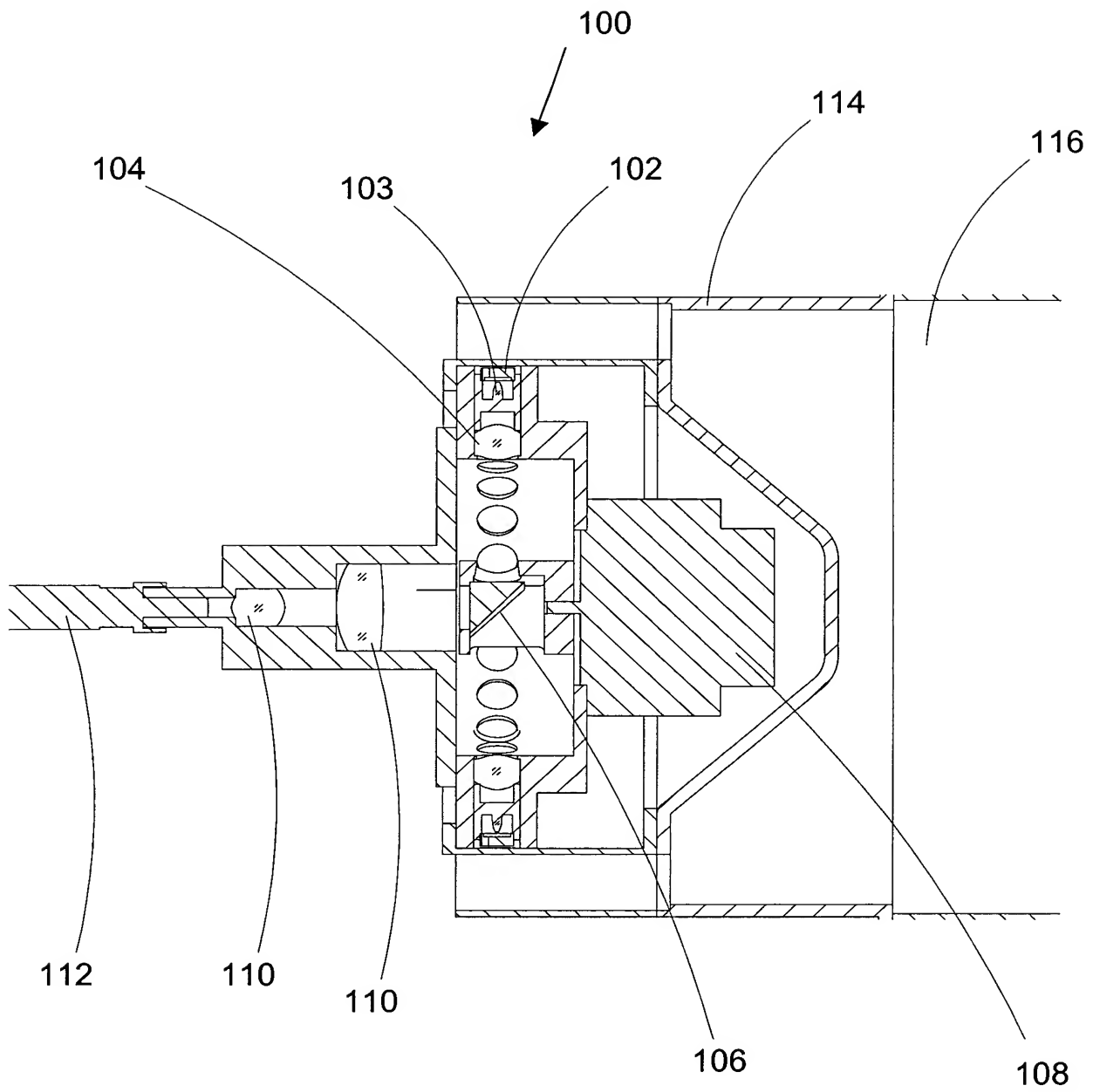


Fig. 10

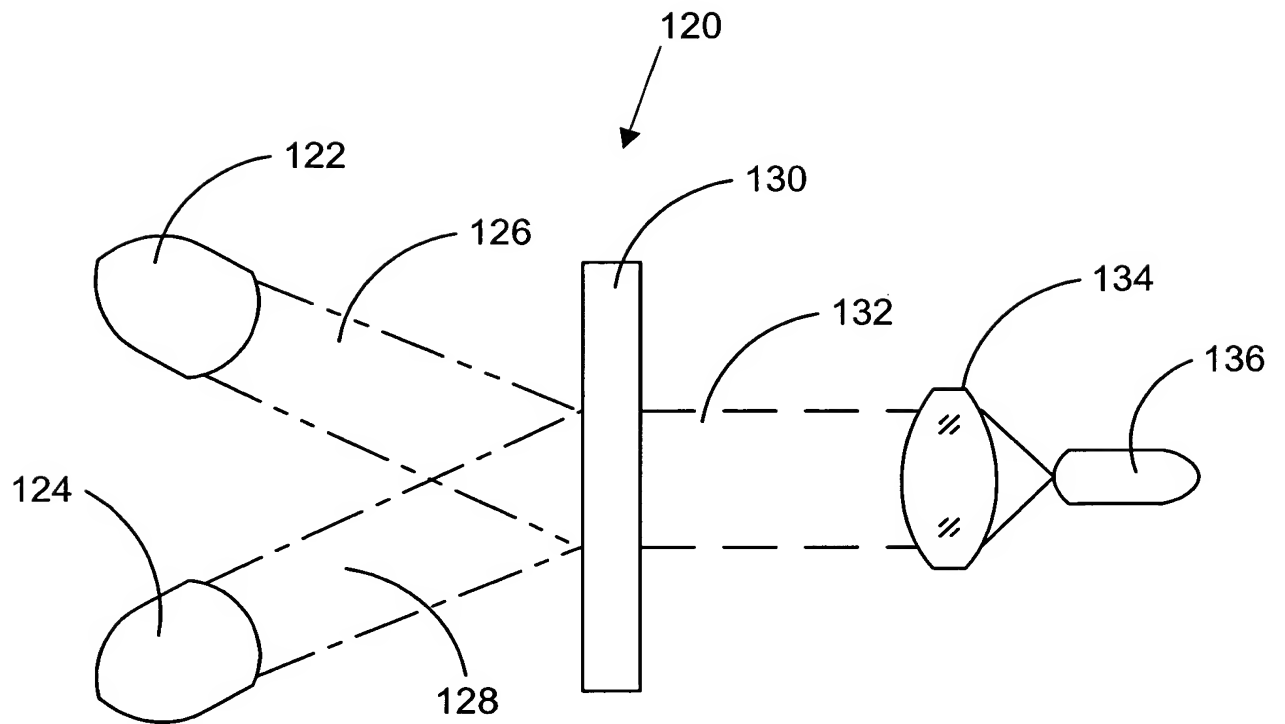


Fig. 11

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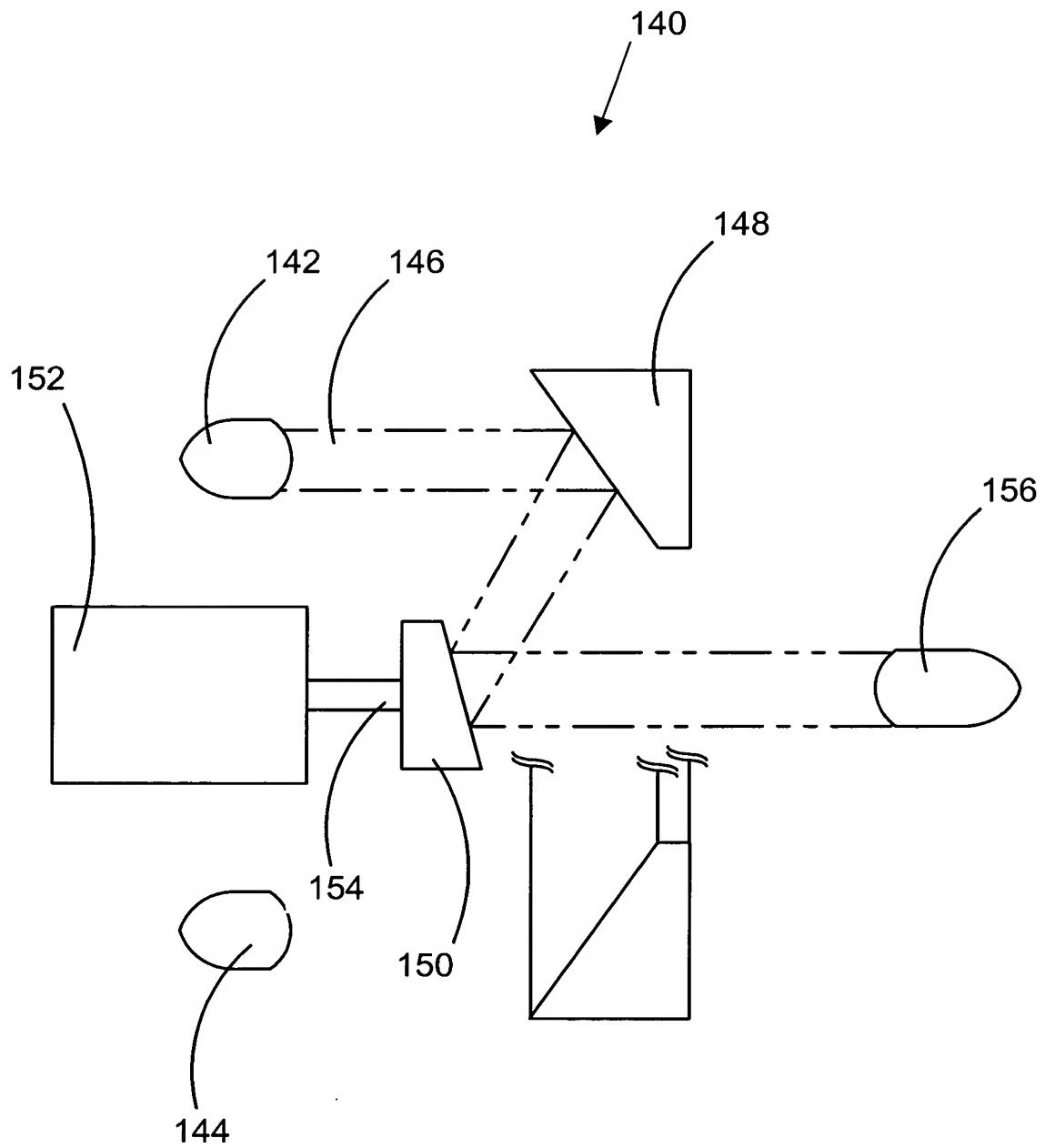


Fig. 12

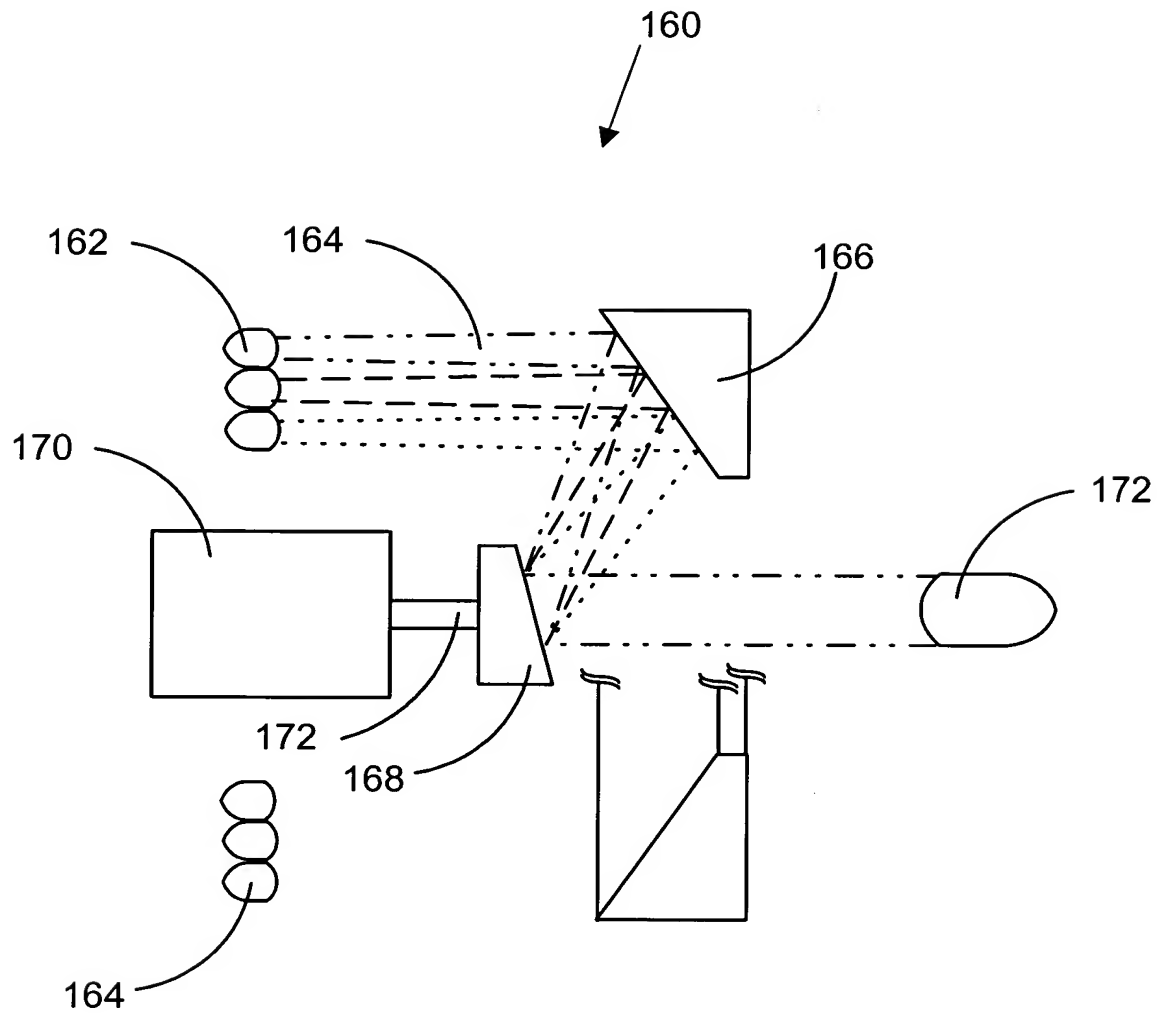


Fig. 13

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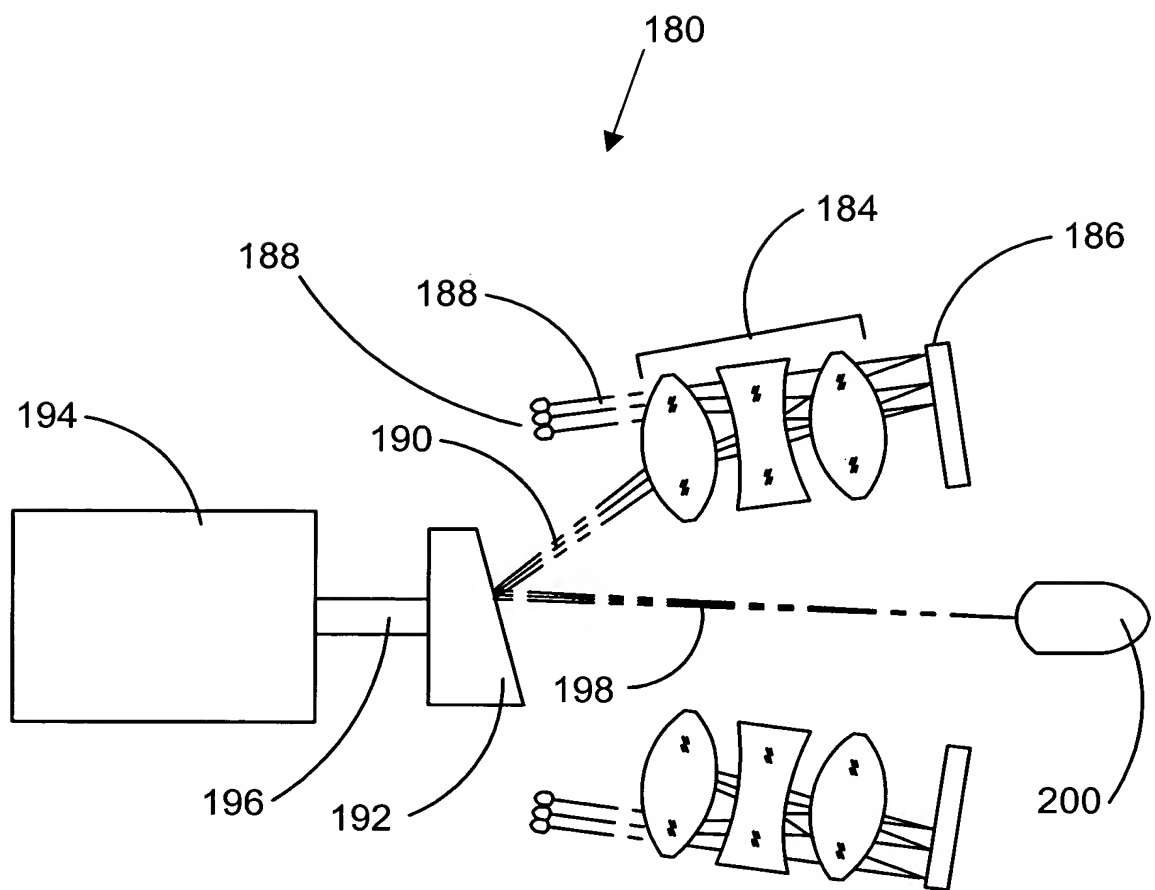


Fig. 14

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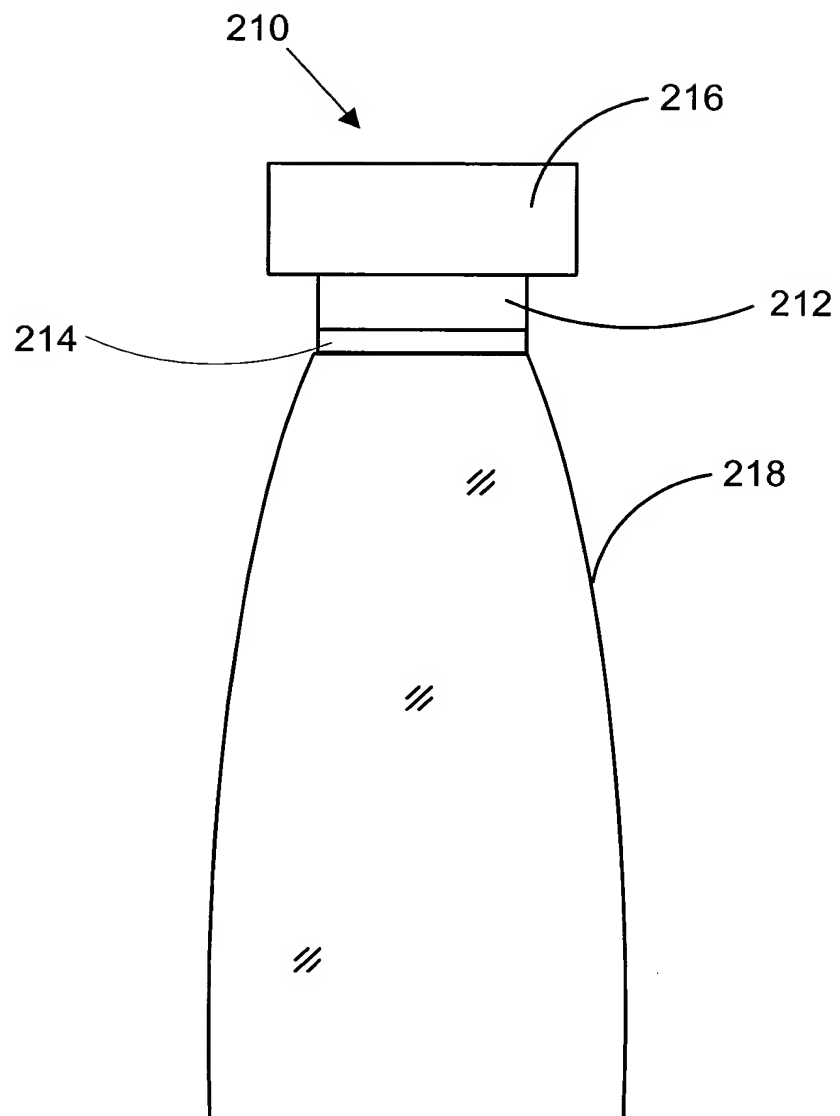


Fig. 15